

pDPG165 35S - bar - 1111
4562 Base Pairs

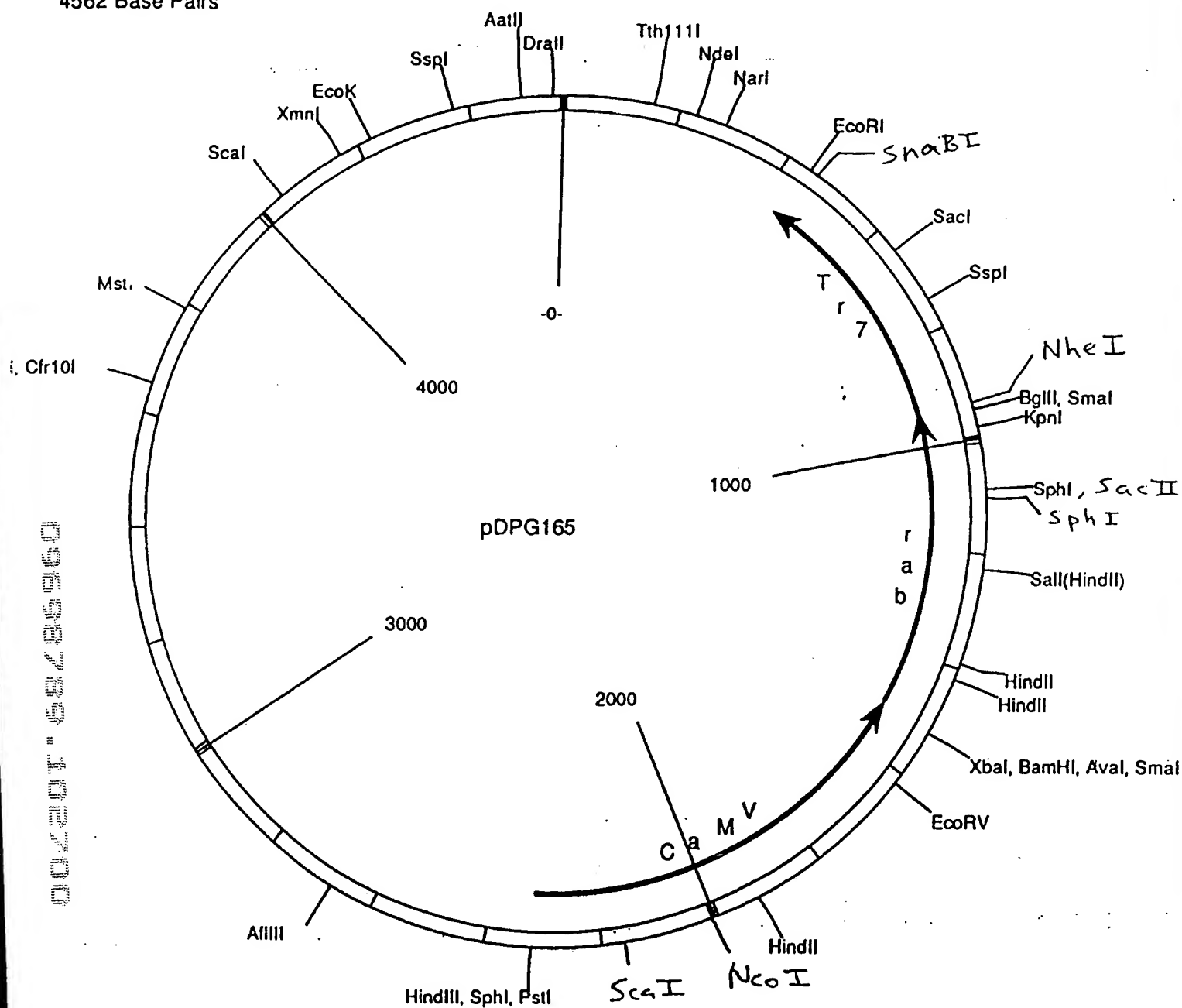


FIG. 1

00696789-102700

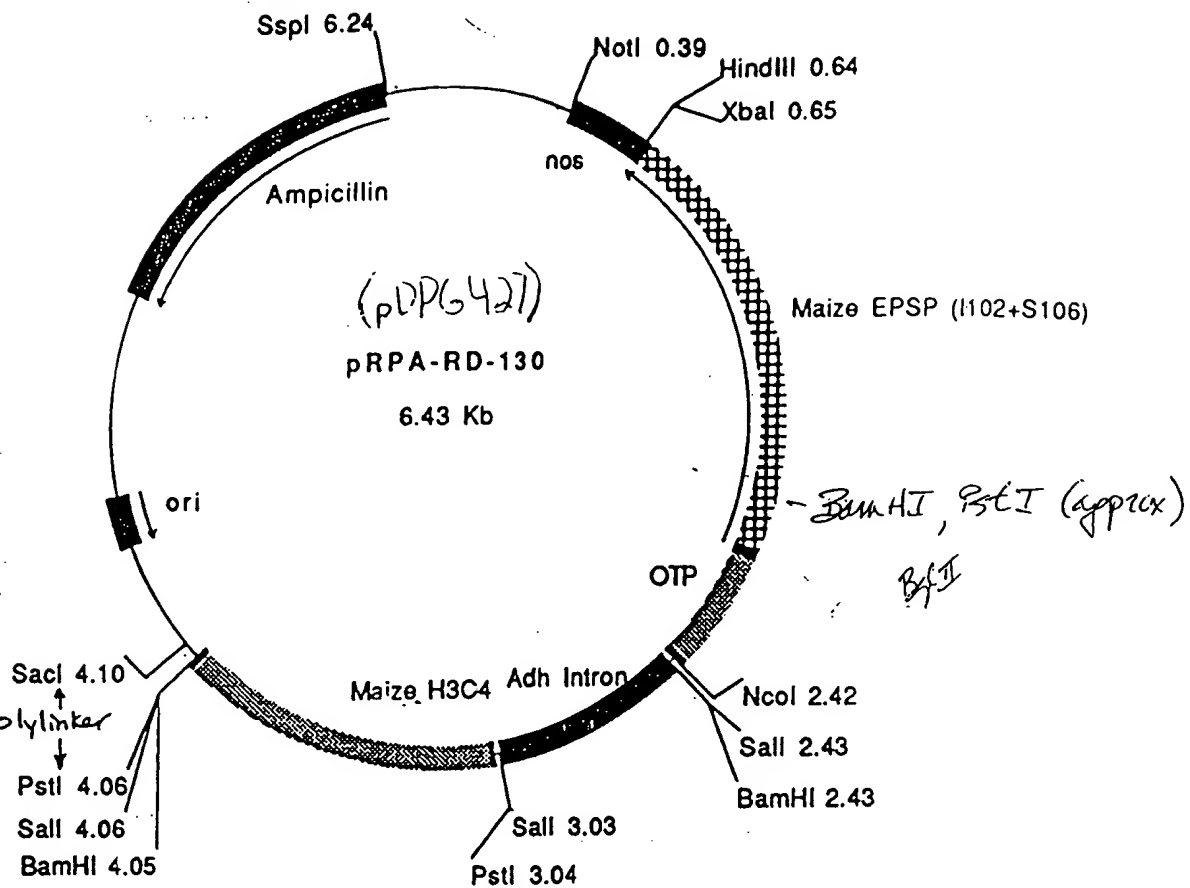


FIG. 2

09698789-102700

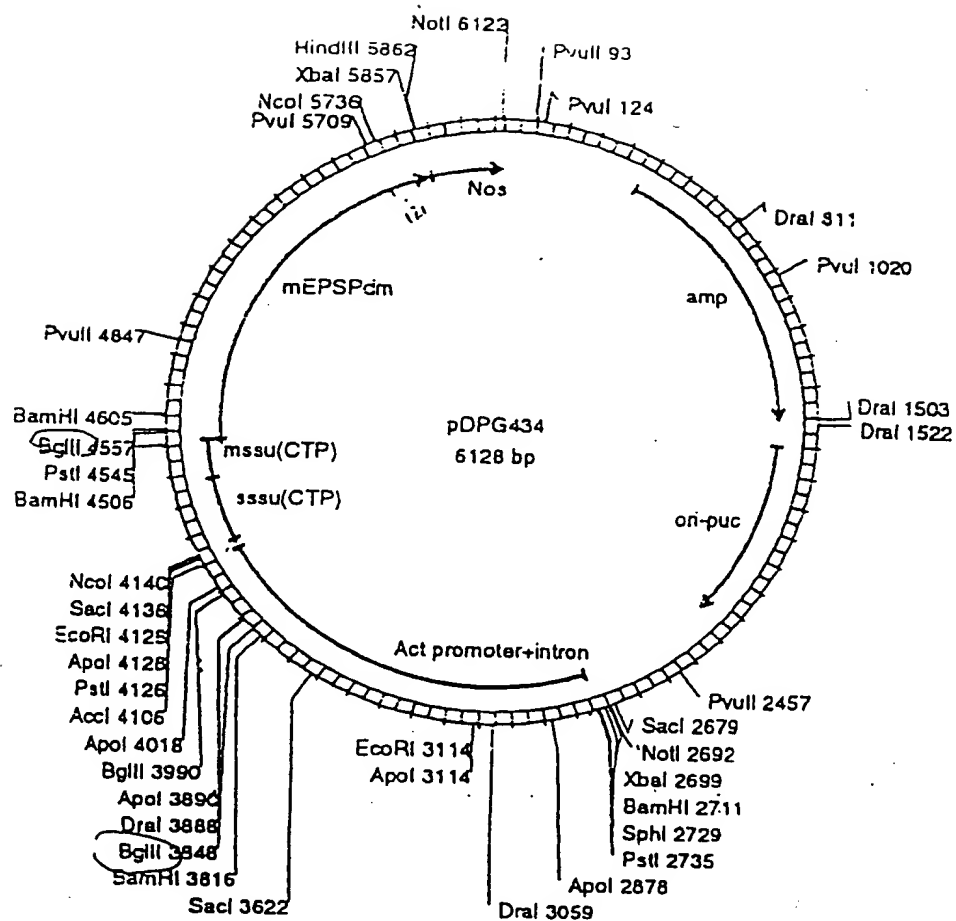
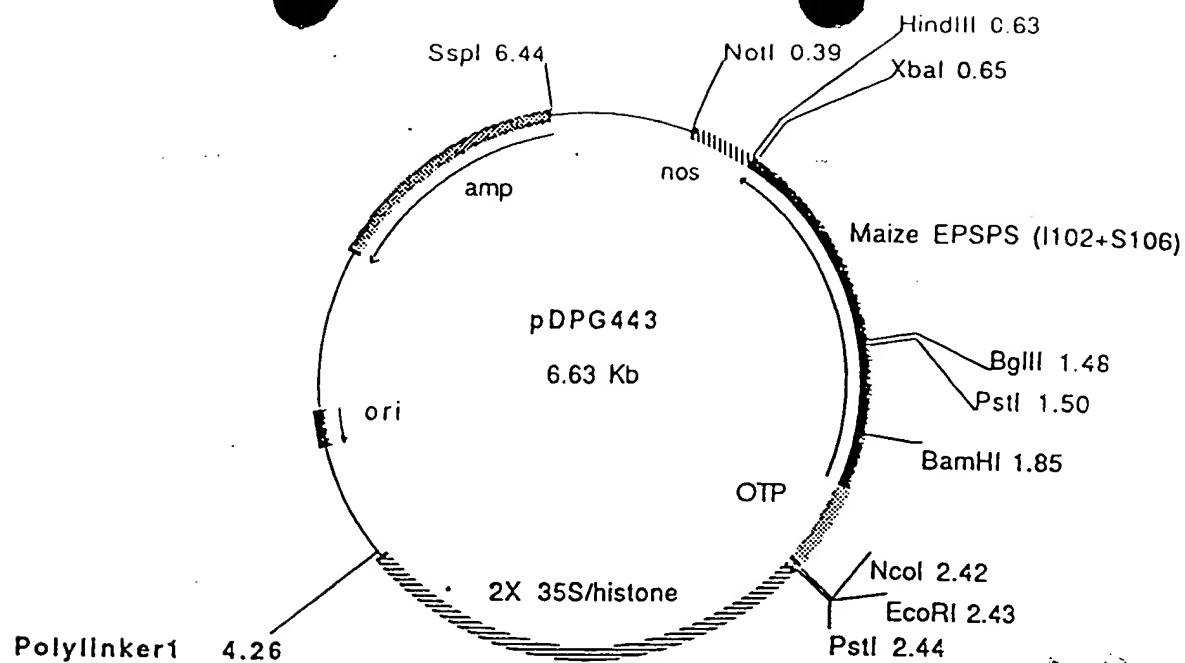


FIG. 3



Polylinker1: 4.26/SacI.BstXI.SacII.XmaIII.NotI.XbaI.SpeI.BamHI.

FIG. 4

MW(kb)

1 2 3

23.1 -

9.4 -

6.6 -

4.4 -

2.3 -

2.0 -

0.6 -

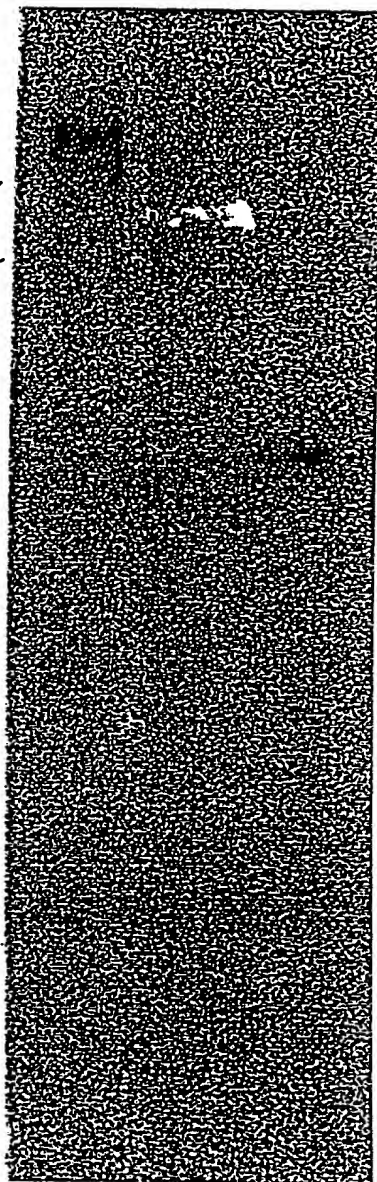


FIG. 5A

09698789-102700

MW(Rb)

1 2 3

23.1 -

9.4 -

6.6 -

4.4 -

2.3 -

2.0 -

0.6 -

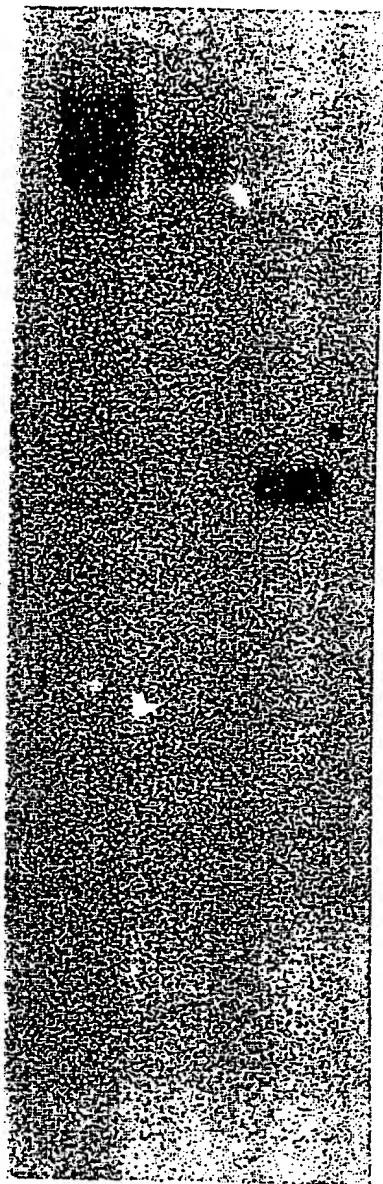


FIG. 5B

09698789-102700

MW(Rb)

1

2

3

23.1 -

9.4 -

6.6 -

4.4 -

2.3 -

2.0 -

0.6 -

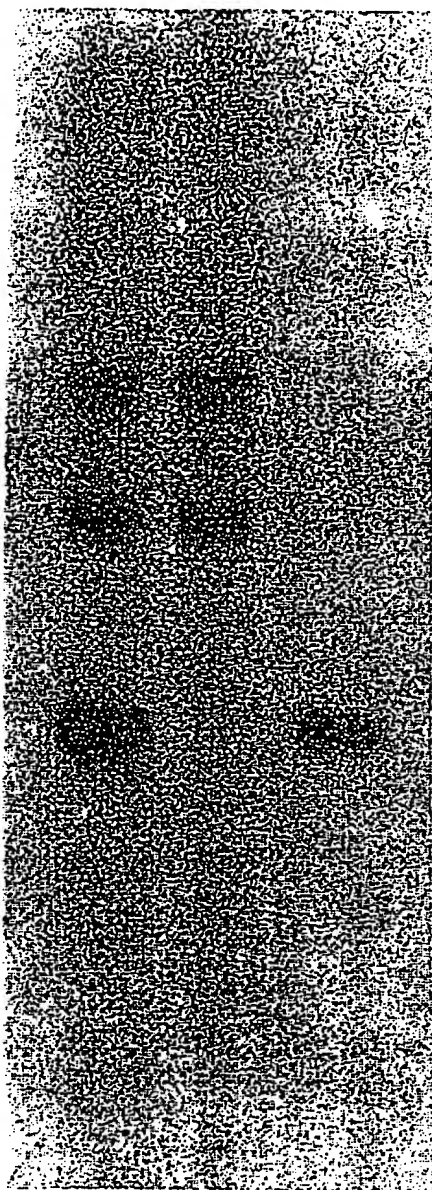


FIG. 6

09698789 .102700

MW(Kb)

1 2 3

23.1 -

9.4 -

6.6 -

4.4 -

2.3 -

2.0 -

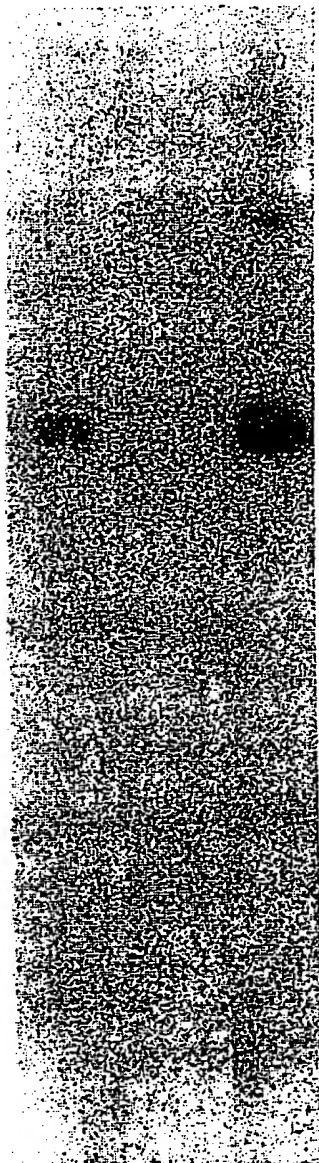


FIG. 7

00720T 68786960

EXPERIMENT 963019 - GROWTH REDUCTION
RR Unfinshied Hybrids (BC₄)

HYBRID	EVENT	MEAN ELH 10 DAT V4 ROUNDUP APPLICATION							MALE STERILE
		0X	1X	Diff	RANK	4X	Diff	RANK	
DK580	GA21	104.1	102.4	1.7	1	102.3	1.8	1	None
	FI117	100.1	97.7	2.3	2	97.7	2.4	2	None
	GJ11	105.0	102.4	2.6	3	98.6	6.5	3	None
	GG25	105.5	99.4	6.2	4	97.3	8.3	4	None
DK626	GA21	98.8	97.1	1.8	3	97.9	1.0	1	None
	FI117	96.4	91.3	5.1	4	92.7	3.7	3	None
	GJ11	96.0	96.8	-0.8	1	94.0	2.0	2	None
	GG25	99.5	97.8	1.6	2	93.1	6.4	4	None

FIG. 8A

HYBRID	EVENT	MEAN ELH 10 DAT V8 ROUNDUP APPLICATION							MALE STERILE
		0X	1X	Diff	RANK	4X	Diff	RANK	
DK580	GA21	142.7	139.6	3.1	3	139.2	3.5	2	None
	FI117	143.4	139.5	3.9	4	139.1	4.3	3	None
	GG25	141.4	139.8	1.6	2	136.5	5.0	4	YES
	GJ11	139.3	139.3	0.0	1	137.3	2.0	1	YES
DK626	GA21	134.8	139.2	-4.4	1	134.0	0.8	1	None
	FI117	135.4	134.2	1.3	4	132.1	3.3	4	None
	GJ11	135.7	137.7	-2.0	2	133.1	2.6	3	YES
	GG25	135.5	136.6	-1.0	3	134.0	1.6	2	YES

FIG. 8B

004201" 58735950

RR - 963019 DK580 bu/a CONTRASTS

LEVEL1		LEVEL2		DIFFERENCE (LEV. 1 - LEV. 2)	Prob>T
HYBRID	RU*@TIMING	HYBRID	RU*@TIMING		
DK580	0X	DK580 FI117	0X	-16.60	0.0339
DK580	0X	DK580 FI117	4X@V4	11.33	0.1468
DK580 FI117	0X	DK580 FI117	4X@V4	27.97	0.0004
DK580	0X	DK580 GA21	0X	3.67	0.6378
DK580	0X	DK580 GA21	4X@V4	-5.35	0.4923
DK580 GA21	0X	DK580 GA21	4X@V4	-9.02	0.2478
DK580	0X	DK580 GG25	0X	-4.13	0.5957
DK580	0X	DK580 GG25	4X@V4	-3.50	0.6531
DK580 GG25	0X	DK580 GG25	4X@V4	0.63	0.9352
DK580	0X	DK580 GJ11	0X	-9.43	0.2267
DK580	0X	DK580 GJ11	4X@V4	-6.05	0.4376
DK580 GJ11	0X	DK580 GJ11	4X@V4	3.38	0.6640

*Roundup Ultra 4X rate = 1.52 lb. ae/acre, i.e. 64 ounces/acre.

FIG. 9A

09698789 " 402700

RR - 963019 DK626 bu/a CONTRASTS

LEVEL1		LEVEL2		DIFFERENCE (LEV. 1 - LEV. 2)	Prob>T
HYBRID	RU*@TIMING	HYBRID	RU*@TIMING		
DK626	0X	DK626 FI117	0X	-11.10	0.1559
DK626	0X	DK626 FI117	4X@V8	5.12	0.5113
DK626 FI117	0X	DK626 FI117	4X@V8	16.20	0.0388
DK626	0X	DK626 GA21	0X	-2.58	0.7401
DK626	0X	DK626 GA21	4X@V8	-9.63	0.2171
DK626 GA21	0X	DK626 GA21	4X@V8	-7.05	0.3658
DK626	0X	DK626 GG25	0X	-6.93	0.3738
DK626	0X	DK626 GG25	4X@V8	23.97	0.0024
DK626 GG25	0X	DK626 GG25	4X@V8	30.90	0.0001
DK626	0X	DK626 GJ11	0X	1.70	0.8272
DK626	0X	DK626 GJ11	4X@V8	27.62	0.0005
DK626 GJ11	0X	DK626 GJ11	4X@V8	25.92	0.0011

*Roundup Ultra 4X rate = 1.52 lb. ae/acre, i.e. 64 ounces/acre.

FIG. 9B

002201" 53785550

Bgl II digest
probe: nos 3'-end

- ② FI117
- ⑤ GA21
- ⑩ GG25
- ⑪ 6J11
- ⑫ negative control
- ⑬ pDP6427

FIG. 10

Mvu(kb) ① ② ③ ④

23.1 -

9.4 -

6.6 -

4.4 -

2.3 -

2.0 -



EcoRV digest
probe; 324 bp EPSB fragment

① negative control

② GA21

③ GG25

④ GF11

FIG. 11A

W(Pb) ① ② ③ ④

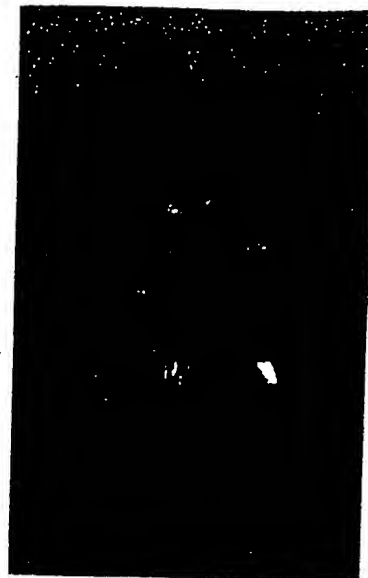
9.4 -

6.6 -

4.4 -

2.3 -

2.0 -



SphI digest
probe: 324 bp EPSPS fragment

① negative control

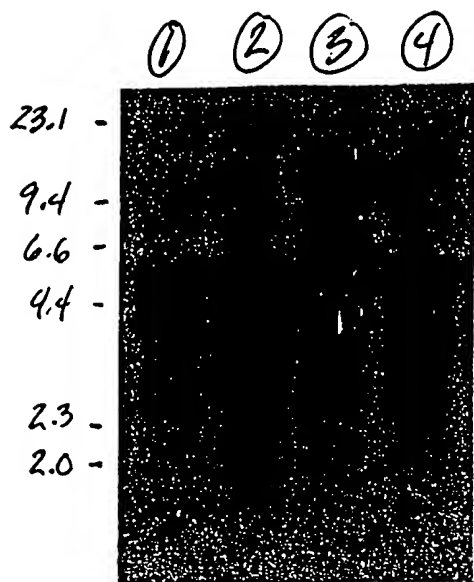
② BA21

③ GG25

④ GT11

FIG. 11B

004201-68486960



SacI digest
 probe: 324 bp EPSPS fragment
 ① negative control
 ② GA21
 ③ GG25
 ④ GT11

FIG. 11C

1 MASISSSVAT VSRTAPAQAN MVAPFTGLKS NAAFPTTKKA NDFSTLPSNG
51 GGRVQCMQVW PAYGNKKFET LSYLPPLSMA PTVMMASSAT AVAPFQGLKS
101 TASLPVARRS SRSLGNVSNG GRIRCMAGAE EIVLQPIKEI SGTVKLPGSK
151 SLSNRILLIA ALSEGTTVVD NLLNSEDVHY MLGALRTLGL SVEADKAAKR
201 AVVVGCGGKF PVEDAKEEVQ LFLGNAGIAM RSLTAAVTAA GGNATYVLDG
251 VPRMRERPIG DLVVGLKQLG ADVDCFLGTD CPPVKVNGIG GLPGGKVKLS
301 GSISSQYLSA LLMAAPLALG DVEIEIIDKL ISIPYVEMTL RLMERFGVKA
351 EHSDSWDRFY IKGGQKYKSP KNAYVEGDAS SASYFLAGAA ITGGTVTVEG
401 CGTTSLQGDV KFAEVLEMMG AKVTWTETSV TVTGPPREPF GRKHLKAIDV
451 NMNKMPDVAM TLAVVALFAD GPTAIRDVAS WRVKETERMV AIRTELTKLG
501 ASVEEGPDYC IITPPEKLVN TAIDTYDDHR MAMAFSLAAC AEVPVTIRDP
551 GCTRKTFFDY FDLSTFVKN

002207 5828550

FIG. 12

963019 Test Map Example

REP	ROW	COL1	COL2	COL3	COL4	COL5	COL6	COL7	COL8	COL9	COL10	COL11	COL12
3	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
3	4	GA21	GA21	GA21	GA21	GA21	GA21	GJ11	GJ11	GJ11	GJ11	GJ11	GJ11
3	4	T-4X@V4	T-4X@V8	T-1X@V8	T-1X@V4	N-OX	T-OX	T-4X@V4	T-1X@V8	N-OX	T-4X@V8	T-OX	T-1X@V4
3	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
3	3	FI117	FI117	FI117	FI117	FI117	FI117	GA21	GA21	GA21	GA21	GA21	GA21
3	3	T-1X@V4	T-1X@V8	N-OX	T-OX	T-4X@V4	T-4X@V8	T-1X@V8	T-4X@V4	N-OX	T-OX	T-1X@V4	T-4X@V8
3	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
3	2	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25
3	2	T-1X@V8	T-4X@V8	T-OX	T-1X@V4	N-OX	T-4X@V4	T-1X@V4	T-4X@V8	T-OX	T-1X@V8	T-4X@V4	N-OX
3	1	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626	DK626	DK626
3	1	N-OX	GJ11	GJ11	GJ11	GJ11	GJ11	FI117	FI117	FI117	FI117	FI117	FI117
3	1	T-OX	T-4X@V8	T-1X@V4	T-4X@V4	T-OX	T-1X@V8	T-4X@V8	T-OX	T-1X@V8	T-4X@V4	N-OX	T-1X@V4
2	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
2	4	GJ11	GJ11	GJ11	GJ11	GJ11	GJ11	GJ11	GJ11	GJ11	GJ11	GJ11	GJ11
2	4	T-OX	T-1X@V4	N-OX	T-4X@V4	T-1X@V8	T-4X@V8	T-1X@V8	T-1X@V4	T-4X@V8	T-4X@V4	N-OX	T-OX
2	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
2	3	GA21	GA21	GA21	GA21	GA21	GA21	GG25	GG25	GG25	GG25	GG25	GG25
2	3	T-4X@V8	T-1X@V8	T-4X@V4	T-OX	N-OX	T-1X@V4	N-OX	T-OX	T-4X@V8	T-1X@V8	T-1X@V4	T-4X@V4
2	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
2	2	GG25	N-OX	GG25	GG25	GG25	GG25	FI117	FI117	FI117	FI117	FI117	FI117
2	2	T-1X@V8	N-OX	T-4X@V4	T-1X@V4	T-OX	T-4X@V8	T-4X@V4	T-OX	T-1X@V4	T-4X@V8	T-1X@V8	N-OX
2	1	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
2	1	FI117	N-OX	FI117	FI117	FI117	FI117	GA21	GA21	GA21	GA21	GA21	GA21
2	1	T-4X@V8	N-OX	T-OX	T-1X@V4	T-1X@V8	T-4X@V4	T-4X@V4	N-OX	T-4X@V8	T-1X@V8	T-OX	T-1X@V4
1	4	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
1	4	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21	GA21
1	4	T-4X@V8	N-OX	T-1X@V8	T-4X@V4	T-1X@V4	T-OX	T-4X@V4	T-4X@V8	T-OX	T-1X@V4	T-1X@V8	N-OX
1	3	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
1	3	FI117	FI117	FI117	FI117	FI117	FI117	FI117	FI117	FI117	FI117	FI117	FI117
1	3	T-4X@V4	T-1X@V4	N-OX	T-1X@V8	T-OX	T-4X@V8	T-1X@V4	T-4X@V8	T-4X@V4	N-OX	T-1X@V8	T-OX
1	2	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
1	2	GJ11	GJ11	GJ11	GJ11	GJ11	GJ11	GG25	GG25	GG25	GG25	GG25	GG25
1	2	T-4X@V8	T-4X@V4	T-OX	N-OX	T-1X@V4	T-1X@V8	T-4X@V4	T-4X@V8	T-OX	N-OX	T-1X@V8	T-1X@V4
1	1	DK580	DK580	DK580	DK580	DK580	DK580	DK626	DK626	DK626	DK626	DK626	DK626
1	1	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25	GG25
1	1	N-OX	T-OX	T-4X@V4	T-4X@V8	T-1X@V4	T-1X@V8	T-4X@V4	T-1X@V8	T-OX	T-4X@V8	T-1X@V4	N-OX

002207-58285950

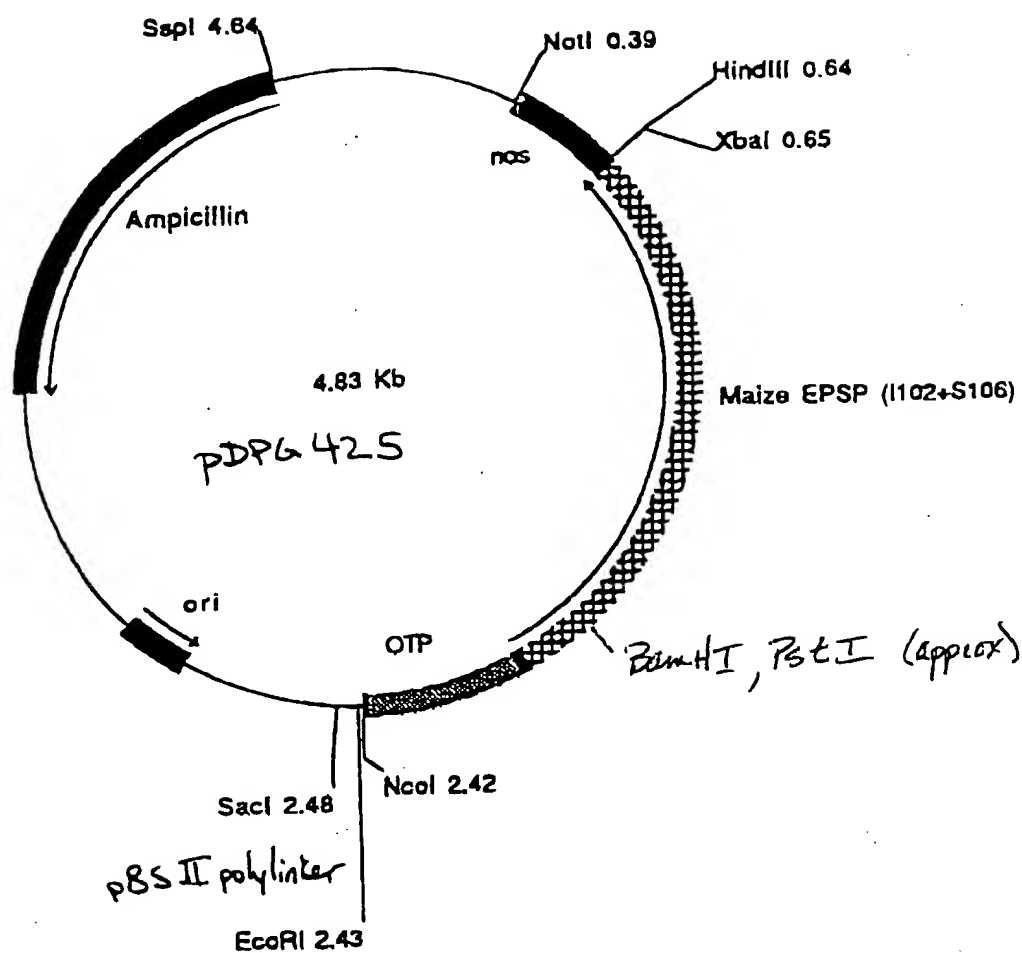


FIG. 14

09698789.1

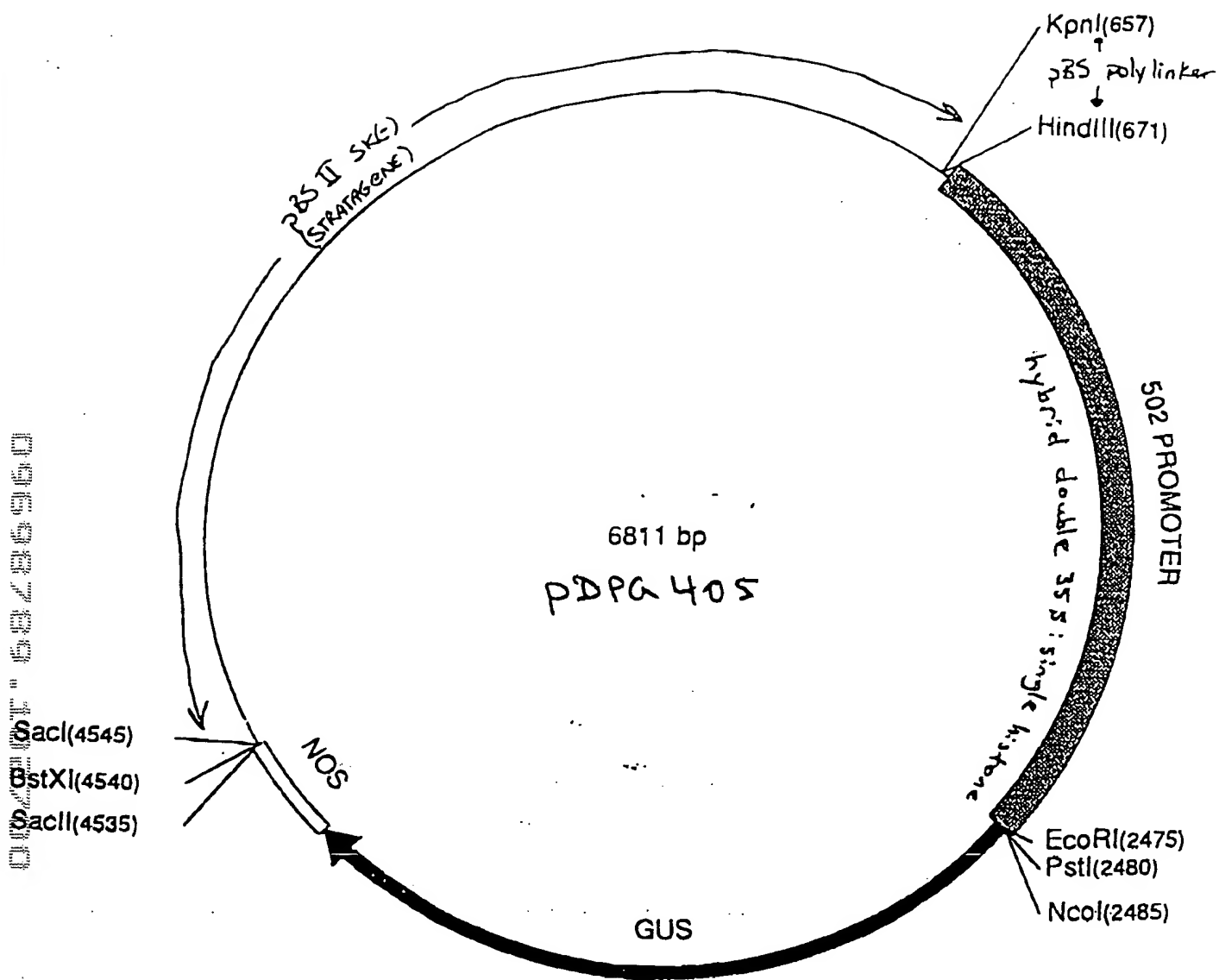


FIG. 15